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Technical Guideline

Installing an NSK NL-400 Console

TG-95-0262

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WARNING! Only qualified personnel should service or repair this device. This device should only be serviced/repared by a qualified service technician who is proficient in the repair of electromechanical dental equipment and who understands the complexities and risks of working within the device and observes proper safety precautions.



WARNING – Compressed Air. The compressed air system that operates this unit is under pressure. Compressed air can propel dust or loose particles and can cause bodily injury or damage. Always turn the system off and bleed off air pressure before attaching or removing air lines or accessories or servicing this unit. All air lines should be periodically inspected and replaced if worn or damaged. If an outside compressed air supply is used to power this unit, the air supply must be regulated to 80 psi or below. Excessive air pressure could cause certain components to rupture.



WARNING – Electrical Voltage. This system is powered by high voltage electricity. Like any other electrically powered device, if it is not used properly, it can cause electrical shock. Always plug the power cord into an electrical outlet with adequate fuse protection and proper grounding. In the event of a short circuit, grounding reduces the risk of shock by providing an escape wire for the electric current. Improper grounding of the unit can result in a risk of electric shock. Always unplug the unit before doing any service or repair to the unit.

PARTS INCLUDED

- NL400 Control Box
- Cord, 28V Adapter Plug

TOOLS REQUIRED

- 1/4" nut driver
- #2 Phillips head screwdriver

INSTRUCTIONS

1. Turn off electrical power and compressed air supply of the delivery system.
2. Open the top cover of the unit to gain access to the baseplate area.
3. There are two main components with the main console box and the display panel. Locate the empty display panel location and find an area as close to the display panel as possible so that the interconnect harness can reach. Also, the main console will be connected to the control block via a handpiece nut so it should be oriented in a way to allow this and the interconnect harness to reach.
4. The unit will also require connection to a 28-volt transformer. If one is not equipped with the existing model, it will need to be included and connected to the main terminal block for power.
5. Once the location is determined, Velcro the NSK main console box to the baseplate.
6. Using 1/4" nut driver, unscrew the 4 nuts that secure the existing blank adapter panel and replace adapter panel with the panel provided that has the NSK NL-400 display board. Reuse the same nuts to secure into place.



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7. Connect the interconnect harness from the console box to the display panel. The connector is keyed so do not force and ensure it is positioned correctly.
8. Connect the tubing harness attached to the backside of the console. Connect the black 1/4" tubing and the black 1/8" tubing to the barbs on the 5-position control block EHLS port. Connect the 1/8" blue tubing to the EHLS water coolant valve, top barb on valve.
9. Connect the power connector from the electrical power harness to the backside of the main console, above the power on/off switch.
10. Using the existing 2-amp circuit breaker, connect the black wire from the power harness to the top tab of the circuit breaker. Then, connect one of yellow wires from the round toroidal transformer to the bottom tab of the circuit breaker.
11. Connect the white wire from the power harness to the other yellow wire from the transformer.
12. Run the motor cord inside of the unit and connect the motor cord to backside of the main console.
13. Turn on the air supply and water to the unit and verify absence of any leaks. Then, turn on the electrical and test the instrument for proper function.